09931469 - GAU: 2416

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INFORMATION DISCLOSURE
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STATEMENT BY APPLICANT
(Not for submission under 37 CFR 1.99)
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Application Number		09931469
Filing Date		2001-08-16
First Named Inventor	Rajiv	Larola
Art Unit		2616
Examiner Name	Nitta	ya Juntima
Attorney Docket Number		960542

				U.S	LPATENTS	
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/NJ/	1	5268694		1993-12-07	JAN et al.	
	2	5867478		1999-02-02	Baum, et al.	
	3	5887023		1999-03-23	Mabuchi	
	4	5933421		1999-08-03	Alamouti, et al.	
	5	5956642		1999-09-21	Larsson, et al.	
	6	6038263		2006-03-14	Kotzin, et al.	
	7	6038450		2006-03-14	Brink, et al.	
/NJ/	8	6061337		2000-05-09	Light, et al	

Application Number		09931469	09931469 - GAU: 2416		
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Attorney Docket Numb	oer	060542			

/NJ/	9	6112094	2000-08-29	Dent	
	10	6335922	2002-01-01	Tiedemann, Jr., et al.	
	11	6337983	2002-01-08	Bonta, et al.	
	12	6377539	2002-04-23	Kang, et al.	
	13	6388998	2002-05-14	Kasturia	
	14	8466800	2002-10-15	Sydon, et al.	
	15	6473467	2002-10-29	Wallace, et al.	
	16	6519462	2003-02-11	Lυ, et al.	
	17	6584140	2003-06-24	Lee	
	18	6597746	2003-07-22	Amrany, et al.	
/NJ/	19	6693952	2004-02-17	Chush, et al.	

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Attorney Docket Num	ber	060542	

/NJ/	20	6751444	2004-06-15	Meiyappan	
	21	6763009	2004-07-13	Bedekar, et al.	
	22	6778513	2004-08-17	Kasapi, et al.	
	23	6862271	2005-03-01	Medvadev, et al.	
	24	6870826	2005-03-22	Ishizu	
	25	6904550	2005-06-07	Sibecas, et al.	
	26	6909797	2005-06-21	Rotstein, et al.	
	27	7006557	2006-02-28	Subrahmanya, et al.	
	28	7061898	2006-06-13	Hashem, et al.	***************************************
	29	7069009	2006-06-27	Li, et al.	
/NJ/	30	7072315	2006-07-04	Liu, et al.	

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Attorney Docket Numb	er	060542	

/NJ/	31	7099299	2005-08-29	Liang, et al.	
	32	7133460	2006-11-07	Bae, et al.	
	33	7149238	2006-12-12	Agee, et al.	
	34	7151936	2006-12-19	Wager, et al.	
	35	7161971	2007-01-09	Tiedemann, Jr., et al.	
	36	7200177	2007-04-03	Miyoshi	
	37	7248559	2007-07-24	Ma, et al.	
	38	7280467	2007-10-09	Smee, et al.	
	39	7313086	2007-12-25	Alzawa	
	40	7313126	2007-12-25	Yun, et al.	
/NJ/	41	7313174	2007-12-25	Alard, et al.	

Application Number	***********	09931469	09931469 - GAU: 2416
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Attorney Docket Numb	385	060542	

/NJ/	42	7313407	2007-12-25	Shapira	
	43	7327812	2008-02-05	Auer	
	44	7366520	2008-04-29	Haustein, et al.	
	45	7379489	2008-05-27	Zuniga, et al.	
	46	7406336	2008-07-29	Astely, et al.	
W /NJ/	47	7418043	2008-08-26	Shattii	

		y	U.S.F	AIENI AFFL	ICATION PUBLICATIONS	1
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/NJ/	\$	20030072255	***************************************	2003-04-17	Ma, et al.	
/NJ/	2	20040001428		2004-01-01	Ma, et al.	
/NJ/	3	20040166887		2004-08-26	Larola, et al.	

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Application Number		09931469	09931469 - GAU: 2416
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Attorney Docket Number		060542	

			FOF	REIGN PAT	TENT DOCUM	MENTS		
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² i	Kind Code4	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	75
/NJ/	1	1148673	EP		2001-10-24	Qualcomm, Inc.		
	2	1187506	EP		2002-03-13	Lucent Technologies, Inc.		
	3	1445873	EP		2004-08-11	NTT DOCOMO, Inc.		
	4	1542488	EP		2005-06-15	Telefonaktiebolaget LM Ericsson		
	5	1601149	EP		2005-11-30	NTT DoCoMa, inc.		
	6	1643669	EP		2006-04-05	Matsushita Electric Industrial Co., LTD.		
	7	2000-332724	JP		2000-11-30	Mitsubishi Electric Corp.		
	8	9800946	wo		1998-01-09	Univ Leiand Stanford Junior		
/NJ/	9	99052250	wo		1999-10-14	Tellabs Operations Inc.		

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Attorney Docket Number		G60542	

/NJ/	10	02031991	wo	2002-04-18	Broadstorm Telecommunications, Inc.	
	11	04008681	wo	2004-01-22	Koninklijke Philips Electronics N.V.	
	12	04036238	wo	2004-04-08	Koninklijke Philips Electronics N.V.	
	13	04038972	wo	2004-05-06	Electronics and Telecommunications Research Inst.	
	14	04051872	wo	2004-06-17	Interdigital Technology Corp.	
	15	05015797	wo	2005-02-17	Matsushita Electric Industrial Co., Ltd.	
	16	04073276	wo	2006-08-26	Docomo Communications Laboratories Europe GMBH	
	17	06099545	wo	2006-09-21	Qualcomm, Inc.	
	18	06099577	wo	2006-09-21	Qualcomm, inc.	
	19	06127544	wo	2006-11-30	Qualcomm, inc.	
/NJ/	20	07024935	wo	2007-03-01	Qualcomm, Inc.	

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09931469 - GAU: 2416 Application Number

	Application Number		09931409	03331403	UAU. 241
	Filing Date		2001-08-16		
NFORMATION DISCLOSURE	First Named Inventor	Rajiv	Laroia		
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, , , , , , , , , , , , , , , , , , , ,	Examiner Name	Nittay	a Juntima		
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		NON-PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), litle of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	Т 5
/NJ/	1	CHENNAKESHU, et al. "A COMPARISION OF DIVERSITY SCHEMES FOR A MIXED-MODE SLOW FREQUENCY-HOPPED CELLULAR SYSTEM," IEEE, 1993, pgs. 1749-1753.	
	2	CHENNAKESHU, et al. "CAPACITY ANALYSIS OF A TDMA-BASED SLOW-FREQUENCY -HOPPED CELLULAR SYSTEM," IEEE TRANSACTION ON VEHICULAR TECHNOLOGY, VOL 45, NO. 3 AUGUST 1996, pgs. 531-542.	
	3	CHIANI, et al. "OUTAGE EVALUATION FOR SLOW FREQUENCY-HOPPING MOBILE RADIO SYSTEMS" IEEE TRANSACTIONS ON COMMUNICATIONS, VOL. 47, NO. 12, pgs 1865-1874, DECEMBER 1989.	
	4	CHOI, ET AL., "Design of the Optimum Pilot Pattern for Channel Estimation in OFDM Systems," Global Telecommunications Conference, IEEE Communications Society, pgs. 3661-3665, Globecom, Dallas, Texas (2004)	
	5	CZYLWIK, "Comparison Between Adaptive OFDM and Single Carrier Modulation with Frequency Domain Equalization," IEEE 47th Vehicular Technology Conference, Vol. 2, 4-7 May 1997, pp. 865-869.	
	6	DAS, et al. "ON THE REVERSE LINK INTERFERENCE STRUCTURE FOR NEXT GENERATION CELLULAR SYSTEMS," EUROPEAN MICROWAVE CONFERENCE, 11 OCTOBER 2004 (2004-10-11), pgs. 3068-3072.	
	7	DINIS, et al., "A Multiple Access Scheme for the Uplink of Broadband Wireless Systems," IEEE Global Telecommunications Conference, 2004, GLOBECOM '04, vol. 6, 29 Nov. 3 Dec. 2004, pp. 3808-3812.	
	8	HILL, et al., "Cyclic Shifting and Time Inversion of Partial Transmit Sequences to Reduce the Peak-to-Average Power Ratio in OFDM," IEEE International Symposium on Personal. Indoor and Mobile Radio Communications, vol. 2, Sept. 18, 2000, Piscataway, NJ, p.	
/NJ/	9	JE, et al. "A NOVEL MULTIPLE ACCESS SCHEME FOR UPLINK CELLULAR SYSTEMS," IEEE VEHICULAR TECHNOLOGY CONFERENCE, 26 SEPTEMBER 2004 (2004-09-26) pgs. 984-988.	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

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Examiner Name Nittay		aya Juntima	
Attorney Docket Number		060542	

/NJ/	10	KALEH, "Channel Equalization for Block Transmission Systems," IEEE Journal on Selected Areas in Communications, Vol. 13, No. 1, January 1995, pp. 110-121	
	11	KELLER, et al., "Adaptive Multicarrier Modulation: A Convenient Framework for Time-Frequency Processing in Wireless Communications," Proceedings of the IEEE. Vol. 88, No. 5, May 2000, pp. 611-640.	
	12	KIM, et al. "PERFORMANCE OF TDMA SYSTEM WITH SFH AND 2-BIT DIFFERENTIALLY DETECTED GMSK OVER RAYLEIGH FADING CHANNEL," IEEE VEHICULAR TECHNOLOGY CONFERENCE, 28 APRIL 1996 (1996-04-28), pgs. 789-793.	
	13	KISHIYAMA Y ET AL. "Investigation of Optimum Pilot Channel Structure for VSF-OFCDM Broadband Wireless Access in Forward Link". IEEE VEHICULAR TECHNOLOGY CONFERENCE, New York, NY, US, Vol. 4, pgs. 139-144, 22 April 2003.	
	14	KOSTIC, et al. "FUNDAMENTALS OF DYNAMIC FREQUENCY HOPPING IN CELLULAR SYSTEMS," IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, VOL. 19, NO. 11, NOVEMBER 2001 pgs. 2254-2266.	
	15	KOSTIC, et al. "DYNAMIC FREQUENCY HOPPING IN WIRELESS CELLULAR SYSTEMS-SIMULATIONS OF FULL- REPLACEMENT AND REDUCED-OVERHEAD METHODS," JEEE VEHICULAR TECHNOLOGY CONFERENCE, 16 MAY 1999 (1999-05-16), PGS. 914-918.	
	16	LACROIX, et al., "A Study of OFDM Parameters for High Data Rate Radio LAN's," 2000 IEEE 51st Vehicular Technology Conference Proceedings, Vol. 2, 15-18 May 2000, pp. 1075-1079.	
	17	LEON, et al., "Cyclic Delay Diversity for Single Carrier-Cyclic Prefix Systems," Conference Record of the Thirty-Ninth Asilomar Conference on Signals, Systems and Computers, Oct. 28, 2005, Piscataway, NJ, pp. 519-523.	
	18	LOTT, "Comparison of Frequency and Time Domain Differential Modulation in an OFDM System for Wireless ATM," 1999 IEEE 49th Vehicular Technology Conference, vol. 2, July 1999, pp. 677-883.	
	19	MIGNONE, et al., "CD3-OFDM: A New Channel Estimation Method to Improve the Spectrum Efficiency in Digital Terrestrial Television Systems," International Broadcasting Convention, 14-18 September 1995 Conference Publication No. 413, IEE 1995, pp. 122-128	
/NJ/	20	NAOFAL AL-DHAHIR: "A Bandwidth-Optimized Reduced-Complexity Equalized Multicarrier Transceiver", IEEE Transactions on Communications, Vol. 45, No. 8, August 1997.	

/NJ/	21	NASSAR, CARL R., et al., "High-Performance MC-CDMA via Carrier Interferometry Codes", IEEE Transactions on Vehicular Technology, Vol. 50, No. 6, November 2001.	
	22	SARI, et al., "Transmission Techniques for Digital Terrestrial TV Broadcasting," IEEE Communications Magazine, February 1995, pp. 100-109.	
	23	SCHNELL et al., "A Promising New Wideband Multiple-Access Scheme for Future Mobile Communications Systems." European Transactions on Telecommunications. Wiley & Sons, Chichester, GB, vol. 10, no. 4, July 1999, pp. 417-427.	
	24	SCHNELL, et al, "Application of IFDMA to Mobile Radio Transmission," IEEE 1998 International Conference on Universal Personal Communications, Vol. 2, 5-9 Oct. 1998, pp. 1267-1272.	
	25	Digital SKLAR: "Formatting and Baseband Transmission", Chapter 2, pgs. 54, 104-106. Communications, Jan 2001	
	26	TELLAMBURA, "Use of m-sequences for OFDM Peak-to-Average Power Ratio Reduction," Electronics Letters, Vol. 33, No. 15, 17 July 1997, pp. 1300-1301.	
	27	TORRIERI, "CELLULAR FREQUENCY-HOPPING COMA SYSTEMS," IEEE VEHICULAR TECHNOLOGY CONFERENCE, 16 MAY 1999 (1999-05-16), pgs. 919-925.	
	28	XIAODONG, et al., "M-Sequences for OFDM Peak-to-Average Power Ratio Reduction and Error Correction." Electronics Letters, Volume 33, Issue 7, 27 March 1997, pp. 554-555	
	29	ZEKRI, et al., "DMT Signals with Low Peak-to-Average Power Ratio," Proceedings, IEEE International Symposium on Computers and Communications, 1999, 6-8 July 1999, pp. 362-368.	
	30	3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Physical Layer Aspects for Evolved UTRA (Release 7), 3GPP TR 25 814 v0.3.1 (2005-11)	
/NJ/	31	International Search Report - PCT/US01/028315, International Search Authority - European Patent Office - 06-21-2002	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1,99)

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/NJ/	/NJ/ 32 International Preliminary Exam Report - PCT/US01/028315, International Preliminary Examining Authority - US. 04-11-03						
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